

# AIRS/AMSU/HSB Version 5 L2 Standard Pressure Levels

Edited by:  
Edward T. Olsen



June, 2007

Version 1.0



Jet Propulsion Laboratory  
California Institute of Technology  
Pasadena, CA

Submit Questions to:

<http://airs.jpl.nasa.gov/AskAirs>

# AIRS V5 L2 Standard Pressure Levels

Index	pressStd, mb	pressH2O, mb
1	1100.0	1100.0
2	1000.0	1000.0
3	925.0	925.0
4	850.0	850.0
5	700.0	700.0
6	600.0	600.0
7	500.0	500.0
8	400.0	400.0
9	300.0	300.0
10	250.0	250.0
11	200.0	200.0
12	150.0	150.0
13	100.0	100.0
14	70.0	70.0
15	50.0	50.0
16	30.0	
17	20.0	
18	15.0	
19	10.0	
20	7.0	
21	5.0	
22	3.0	
23	2.0	
24	1.5	
25	1.0	
26	0.5	
27	0.2	
28	0.1	

## AIRS V5 L2 Standard Pressure Levels

The `pressStd` array appears in the Level 2 Standard Product once per granule, and is ordered from bottom of atmosphere to top. It identifies the pressure levels upon which are reported `TAirStd`, `TAirMWOnlyStd`, `GP_Height`, and `GP_Height_MWOnly`. They are also the levels that bound `O3VMRStd`. The array has not been modified since launch in May, 2002.

The `pressH2O` array is new to Version 5. It is also ordered from bottom of the atmosphere upward and identifies the pressure levels that bound `H2OMMRStd`, `H2OMMRSat`, and `H2OMMRSat_liquid`.

Both pressures arrays appear in the Level 2 Standard Product once per granule as attributes. They are shared by all retrievals, and so need not be replicated 1350 times as full swath arrays.

# AIRS/AMSU/HSB Version 5 L2 Support Pressure Levels

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# AIRS L2 Support Product Pressure Levels

Index	pressSup, mb	Index	pressSup, mb	Index	pressSup, mb
1	0.0161	34	47.1882	67	358.966
2	0.0384	35	51.5278	68	374.724
3	0.0769	36	56.1260	69	390.893
4	0.1370	37	60.9895	70	407.474
5	0.2244	38	66.1253	71	424.47
6	0.3454	39	71.5398	72	441.882
7	0.5064	40	77.2396	73	459.712
8	0.714	41	83.2310	74	477.961
9	0.9753	42	89.5204	75	496.63
10	1.2972	43	96.1138	76	515.72
11	1.6872	44	103.017	77	535.232
12	2.1526	45	110.237	78	555.167
13	2.7009	46	117.777	79	575.525
14	3.3398	47	125.646	80	596.306
15	4.077	48	133.846	81	617.511
16	4.9204	49	142.385	82	639.14
17	5.8776	50	151.266	83	661.192
18	6.9567	51	160.496	84	683.667
19	8.1655	52	170.078	85	706.565
20	9.5119	53	180.018	86	729.886
21	11.0038	54	190.32	87	753.628
22	12.6492	55	200.989	88	777.79
23	14.4559	56	212.028	89	802.371
24	16.4318	57	223.441	90	827.371
25	18.5847	58	235.234	91	852.788
26	20.9224	59	247.408	92	878.62
27	23.4526	60	259.969	93	904.866
28	26.1829	61	272.919	94	931.524
29	29.121	62	286.262	95	958.591
30	32.2744	63	300	96	986.067
31	35.6505	64	314.137	97	1013.95
32	39.2566	65	328.675	98	1042.23
33	43.1001	66	343.618	99	1070.92
				100	1100.0

## AIRS L2 Support Product Pressure Levels

The pressSup array appears in the Level 2 Support Product once per granule as an attribute, and is ordered from top of atmosphere to bottom. This is opposite to the order of pressStd in the Level 2 Standard Product. The pressure array has not been modified since launch in May, 2002.

Many Level 2 Support Product profiles are reported at this high vertical resolution for the convenience of calculation in the retrieval algorithm. The values in the support product profiles are not independent. The pressure array appears as an attribute because it is shared by all retrievals, and so it need not be replicated 1350 times as a full swath array.